

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

I. Background

Formosa Plastics Corp LA, (FPC-LA), is an existing synthetic organic chemical manufacturing industry (SOCMI) facility consisting of three units – a Vinyl Chloride/EDC Units (VCM), a Polyvinyl Chloride Unit (PVC), and a Utilities Unit. The site is located in East Baton Rouge Parish and has been in operation over 40 years. A caustic chlorine unit as well as one of two vinyl chloride monomer (VCM1) has been permanently shut down and are no longer in operation.

The Baton Rouge Plant operated under State Permit 0840-00002-10 and PSD-LA-560 (M-2) issued March 7, 1997, and PSD-LA-560 (M-1) issued March 2, 1995, until the Part 70 Operating Permit replacing the state permit was broken into three unit-wide permits. The caustic chlorine unit and the VCM1 unit were permanently shut down before their TV permits were issued.

The PVC Unit received its initial Part 70 Operating Permit on October 24, 2001. The VCM Unit received its initial Part 70 Operating permit 0840-00002-V0 on August 11, 2006 and later amended on August 9, 2007. The Utilities Unit received its initial Part 70 Operating Permit 2915-V0 on September 12, 2006, as well as the PSD modification PSD-LA-560-M3. The Utilities TV Permit was amended October 16, 2006, and the unit is currently operating under this permit.

This is a modification to the Part 70 operating permit for the Utilities Unit, as well as a modification to its PSD identified as PSD-LA-560 (M-3). It replaces all current Utilities Unit permits and amendments.

II. Origin

A permit application and Emission Inventory Questionnaire dated May 22, 2007 requesting a modification to the TV permit and the PSD permit was received on May 29, 2007. Additional information dated August 29, October 12, 31, and November 1, 2007 was also received.

III. Description

The Utilities Unit currently consists of three gas turbines, three boilers, a process water treatment plant, an electrical power substation, and an air separation unit that produces oxygen, nitrogen, and argon.

AIR PERMIT BRIEFING SHEET
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Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
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The three gas turbines are General Electric combined-cycle turbines. The total yearly average output of the turbines is 998,640 MW-hrs. The rating for each gas turbine at a temperature of 59 °F is approximately 38 MW. The maximum generator rating for Gas Turbines No. 1, No. 2, and No. 3 are 44.9 MW, 47.5 MW, and 47.5 MW respectively. Gas Turbine No. 1 was constructed in 1984 and Gas Turbine No. 2 was constructed in 1989. Gas Turbine No. 3 installation was completed in August of 1996 and has been operated since that time. All turbines are fired using only natural gas.

Each gas turbine exhausts through a Heat Recovery Steam Generator (HRSG) that is outfitted with an associated supplemental firing system (duct burner). This system produces high pressure steam that is routed through two steam turbines. A gas turbine and its associated HRSG are capable of producing 140,000 pounds of steam per hour at 1,314 psig and 905 °F without supplemental firing. With supplemental firing, each duct burner is capable of producing an additional 100,000 pounds per hour at ISO conditions with 15% oxygen. The duct burners for Gas Turbines No. 1 and No. 2 have the capability to fire natural gas or a combination of natural gas and hydrogen produced in Formosa's chlorine plant (currently shut down). However, Formosa shall operate Gas Turbines No. 1 & No. 2 with natural gas only. The duct burner for Gas Turbine No. 3 burns natural gas only.

Each of the steam turbines associated with the HRSGs are capable of producing 12 MW with an inlet flow of 245,000 pounds per hour of steam. The electricity and plant steam requirements for 300 psig and 135 psig service are provided by the turbines and HRSGs.

Emission controls are utilized on the turbines. Gas Turbines No. 1 and No. 2 are both equipped with steam injection and typically operate with a steam to fuel injection ratio of 1:1. Gas Turbine No. 2 has a steam flow program that determines a steam injection rate based on fuel flow rates, ambient temperature, and the approximate specific humidity. This program calculates the steam injection rate for emissions compliance. The steam injection control system determines steam flow at a rate higher than that required for compliance. This offset ensures compliance with the expected control system dead band and operational transients. Gas Turbine No. 3 is equipped with a dry low NO_x technology to achieve a guaranteed 9 ppmv NO_x emission level at optimization.

The standby boilers (Package Boilers A and B1) provide swing load process steam, allowing the turbines to operate at constant rates as steam demand varies. The boilers also provide for plant steam during gas turbine downtime. Package Boiler A is rated at 92.7 MMBTU-HHV/hour.

The design basis for the Utilities Unit required the operation of all three turbines and associated HRSGs to supply overall plant electrical and steam needs. In order to maintain emissions within the proposed cap limits including the addition of the new package boilers, FPC-LA

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Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

proposes to restrict the operation of the combustion sources in the emission cap in conjunction with the new boilers. The Utilities Unit has designed five alternate operating scenarios for the operation of the new boilers within the combustion emissions cap. Optimization of the supply of steam is desired, therefore, once the plant electrical and steam demands are quantified, the permittee shall determine which operating scenario provides the required steam to support facility needs. These scenarios are described below:

Scenario 1 – Gas Turbine No. 3 and either Gas Turbine No. 1 or Gas Turbine No. 2 may be operated simultaneously. Package Boilers A and either B1 or B2 may operate with Gas Turbine No. 3 and either Gas Turbine No. 1 or Gas Turbine No. 2.

Scenario 2 – Gas Turbine/HRSG No. 3 and either Gas Turbine/HRSG No. 1 or Gas Turbine/HRSG No. 2 may be operated simultaneously. Package Boiler B1/B2 shall not operate simultaneously with simultaneous operation of all three Gas Turbines/HRSGs, except during periods of startup or shutdown. Package Boilers A and B1/B2 may operate with Gas Turbine/HRSG No.3 and either Gas Turbine/HRSG No. 1 or Gas Turbine/HRSG No. 2.

Scenario 3 – Package Boilers A and B1/B2 may operate with any one of the three Gas Turbines/HRSGs.

Scenario 4 – Gas Turbine/HRSG No. 3 and either Gas Turbine No. 1 or Gas Turbine No. 2 may operate in this scenario. HRSG No. 1 and HRSG No. 2 shall not operate in this scenario. Package Boilers A and B1/B2 may operate with Gas Turbine/HRSG No. 3 and either Gas Turbine #1 or Gas Turbine #2.

Scenario 5 – HRSG #3 shall not operate in this scenario. Package Boilers A and B1/B2 may operate with Gas Turbine No. 3 and either Gas Turbine/HRSG No. 1 or Gas Turbine/HRSG No. 2.

The Utilities Unit is connected to the Entergy power grid through a FPC-owned power station. Although FPC-LA does sell small amounts of excess generated electrical power to Entergy, the Utilities Unit has never sold more than one-third of the Potential Electrical Output Capacity (PEOC) and no more than 219,000 MW-hr/year from any of the three electricity generators. There are no significant air-emissions sources present in the Entergy substation area and no polychlorinated biphenyl compounds are used onsite.

The Utilities Unit operates a process water treatment plant, consisting of several insignificant sources—primarily open-top process water treatment units. No significant amount of VOCs or

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

HAPs are emitted from these boiler feed water treatment processes. The unit also contains a cooling tower used for process-area cooling requirements.

The N₂/O₂ unit produces oxygen, nitrogen, and argon through an air separation process. The air is filtered and compressed to remove particles and moisture. The air dryer absorbers remove all remaining water vapor and carbon dioxide from the air stream. The dried air stream is then split into two volumes for further processing. Approximately 20% of the air is compressed, cooled using a countercurrent flow of cold pure nitrogen, and passed through an expander.

The remaining 80% of the air enters the air separation unit where it is cooled to cryogenic temperature. The cryogenically cooled air then enters a high pressure column to separate oxygen at the top and nitrogen at the bottom. Nitrogen is condensed and concentrated through a reflux nitrogen sub-cooler. The major part of the stream then passes through a crude argon condenser. The crude argon is separated into liquid and vapor forms. The liquid argon is vaporized. Water is removed from the gasified argon by adding hydrogen. The dry argon is chilled by heat exchangers, purified and stored.

The initial Title V permit 2915-V0 included the addition of a combustion emissions cap as well as the addition of two new higher capacity boilers (Package Boilers B1 and B2) with a rating of 350 MMBTU/hour. The new boilers replaced two other boilers (Package Boilers B and C) each rated at 33 MMBTU/hour. These boilers were permanently shut down. The two new boilers will not operate simultaneously except during periods of startup and shutdown. The new boilers are part of the emissions cap, and in order to achieve the emission cap limitations, specific conditions related to the method of operation for the turbines, HRSGs, and boilers were included as part of the permit.

The operating limits and monitoring requirements approved in the Alternative Monitoring Plan for NO_x RACT are used during the ozone season.

Proposed Changes/Modifications

With this modification, Formosa is requesting the following:

- Correction to the permit expiration date from August 1, 2011 to September 12, 2011.
- Addition of a hydrochloric acid tank UT-505B, as an insignificant source. UT-505B will be constructed and operated similarly as UT-505, Formosa's existing Hydrochloric Acid Tank. As with UT-505, Formosa conservatively estimates the HCl emissions from UT-505B to be approximately 75 lb/yr. Even with two tanks emitting HCl, their total emissions is less than the Minimum Emissions Rate (MER) of 500 lbs/yr.
- Higher maximum hourly emission rates to account for operation of 212-Cogeneration Unit No. 3, EQT009, at conditions other than steady state (e.g., during start-ups,

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

shutdowns, and/ or when operating at loads less than 25 MW). Annual permitted emissions rates will not change. The requested emissions are based, in part, on vendor data from the gas turbine manufacturer and LDEQ NO_x RACT requirement at LAC 33:III.2201. The unit will be allowed to operate at maximum lb/hr emissions rates as follows.

Max Lb/Hr Emissions Rates for Cogeneration Unit No. 3 (Startups and Shutdowns and/or Loads ≤ 25 MW)			
	Gas Turbine No. 3 (Source ID 212A)	HRSG No. 3 (Source ID 212B)	Cogeneration Unit No. 3 (Source ID 212)
NO_x	109.09 max lb/hr (at heat input of 320 MM BTU/hr)	12.20 max lb/hr (at heat input of 122 MM BTU/hr)	121.29 max lb/hr
CO	75.02 (max lb/hr) (at heat input of 170 MM BTU/hr)	10.69 max lb/hr (at heat input of 122 MM BTU/hr)	85.71 max lb/hr

- Replacement of one of two existing emergency fire pump engines (525 hp North Firewater Pump Engine) currently permitted as a General Condition XVII activity. The new pump engine has applicable federal requirements (40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII) and needs to be permitted as point source. FPC has also requested to increase hours of operation from 215 hrs/yr to 450 hrs/yr.
- An increase in the hours of operation for emergency fire pump engine (525 hp South Firewater Pump engine) from 215 hrs/yr to 450 hrs/yr. The pump is currently permitted as GCXVII activity.
- Replacement of two out of three cells from the existing cooling tower, Source ID 220, at the Utilities Unit.
- Removal of NESHAP 40 CFR 63 Subpart DDDDD requirements from the permit, specifically the Package Boilers B1 & B2 (EQT077 and EQT131). Sources that were subject to the vacated Boiler MACT may now be subject to case-by-case MACT under Clean Air Act Section 112(g) or 112(j). The EPA is in the process of determining if case-by-case MACT was triggered when the court vacated the Boiler MACT. If case-by-case MACT was triggered, FPC will be notified by letter. Sources affected by case-by-case MACT will be required to file a permit application in accordance with 40 CFR part 63 subpart B requesting that the State issue a case-by-case MACT determination.
- Updating the emissions from the commonly vented gasoline tanks, EIQ 170, to reflect negligible emissions from benzene, toluene, xylene, n-hexane, and 2,2,4-trimethyl pentane.
- Removal from the current permit the boiler, Emission Point EQT008, 205 – Package Boilers B and C. The boilers have been permanently removed from the site.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

Additionally, GRP008, Utilities Unit Combustion CAP (Includes Boilers B&C Vent), will be removed from the permit as well.

- The description for GRP030 "Utility Unit Combustion Cap (includes Boilers B1/B2) - Boilers B&C shall not operate" has been changed to GRP030 "Utilities Unit Combustion Cap."

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	39.38	36.06	-3.32
SO ₂	22.69	22.93	+0.24
NO _x	642.74	643.96	+1.22
CO	350.65	351.33	+0.68
VOC*	35.53	35.74	+0.21

*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Acetaldehyde	0.26	0.26	-
Acrolein	0.04	0.04	-
Benzene	0.08	0.08	-
Chloroform	-	0.15	+0.15
Ethylbenzene	0.20	0.20	-
Formaldehyde	4.68	4.68	-
Napthalene	0.01	0.01	-
PAH	0.01	0.01	-
Toluene	0.84	0.84	-
Xylenes	0.41	0.41	-
n-Hexane	4.64	4.64	-
2,2,4-Trimethyl pentane	-	<0.01	+<0.01
Total	11.17	11.32	+0.15

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Chlorine	3.42	3.65	+0.23

Other VOC (TPY): 24.42

IV. Type of Review

For this modification, the permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, 40 CFR 64 (CAM) and Prevention of Significant Deterioration (PSD). A modification to the existing PSD is required due to the increase in lb/hr max of CO and NO_x for the turbine at conditions other than steady state (e.g., during startups, shutdowns, and/or when operating at loads ≤ 25 MW). The requested emissions are based, in part, on vendor data from the gas turbine manufacturer and LDEQ NO_x RACT requirement at LAC 33:III.2201.

The gas turbines and duct burners (HRSGs), EQT002/Cogeneration Unit 1, EQT003/Cogeneration Unit 2 and EQT012/Cogeneration Unit 3, are subject to New Source Performance Standards (NSPS) (40 CFR 60 Subpart GG and 40 CFR 60 Subpart Db).

40 CFR 60 Subpart Db applies to the boilers EQT077/Package Boiler B1 (229A) and EQT131/Package Boilers B2 (229B).

Compliance Assurance Monitoring (CAM), 40 CFR 64, is applicable to any major source unit that has the potential to emit greater than 100 tons of a regulated air pollutant after controls (post-control), defined as a pollutant specific emission unit (PSEU). CAM, however, is not applicable to emission units EQT002/Cogeneration 1 (166), EQT003/Cogeneration 2 (167), and EQT009/Cogeneration Unit 3 (212), because NO_x, the pollutant requiring control, does not have any monitoring requirements according to a determination made by EPA dated April 24, 2001 regarding industrial gas turbines having a heat input at peak load greater than 100 MMBTU/hr and a manufacturer's rated base load at ISO conditions greater than 30 MW, per 40 CFR 60.332 (40 CFR 60 Subpart GG). Any monitoring for NO_x required by 40 CFR 60 Subpart GG would have been considered CAM for these emission units. The other emission units in the Utilities Unit are not PSEUs.

Formosa is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. However, until the administrative authority makes a final determination, toxic air pollutant

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXX XX, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXX XX, 2008. The draft permit was also submitted to US EPA Region VI on XXX XX, 2008.

VII. Effects on Ambient Air

A preliminary analysis was made on the effects associated with both the potential emissions from the proposed new boilers and also the effects of the proposed increased level of potential maximum pound per hour emissions from the three gas turbines. Results from the preliminary analysis indicated no significant impact.

AIR PERMIT BRIEFING SHEET
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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

VIII. General Condition XVII Activities

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _x	CO	VOC
Emergency Storm Water Pump (Diesel Engine)	300 hr/yr	0.03	0.03	0.47	0.10	0.04
Turbine Startup Engines (Diesel)	336 hr/yr	0.08	<0.01	2.62	0.60	0.07
Emergency South Firewater Pump Testing (525 hp Diesel Engine)	450 hr/yr	0.26	0.24	3.66	0.79	0.29
Equipment Cleaning Air Separation Plant	100 cans/yr	-	-	-	-	0.08
Parts Degreasing	400 gallon/yr	-	-	-	-	1.29

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

IX. Insignificant Activities

		Citation
ID No.:	Description	Insignificant Activity per:
	Diesel Fuel Storage Tanks (2) at Dock	LAC 33:III.501.B.5.A.2
	Diesel Fuel Storage Tanks (3) in Utilities Unit	LAC 33:III.501.B.5.A.2
	Natural Gas Condensate (20 drums/yr)	LAC 33:III.501.B.5.A.2
	Miscellaneous Gas Turbine Compressor Cleaners	LAC 33:III.501.B.5.A.2
171	Waste Oil Storage Tank (6000 gallons)	LAC 33:III.501.B.5.A.3
	Lime Silo Loading	LAC 33:III.501.B.5.A.4
	Lab Chemicals	LAC 33:III.501.B.5.A.6
	Miscellaneous Resin Drums	LAC 33:III.501.B.5.A.7
T-505	30% Hydrochloric Acid Storage Tank	LAC 33:III.501.B.5.D
	93% Sulfuric Acid Storage Tank	LAC 33:III.501.B.5.D
	Water Clarifier	LAC 33:III.501.B.5.D
T-505B	30% Hydrochloric Acid Storage Tank (5300gals)	LAC 33:III.501.B.5.D

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

X.	Table 1. Applicable Louisiana and Federal Air Quality Requirements																				
	ID No.:	Description	LAC 33:III. Chapter																		
			2*	5 [▲]	9	11*	13*	15	2103	2104*	2107	2113	2115	2116*	2131	22	29*	51*	53	56	59
	AI-288	Formosa Plastics Corp. (FPC)																			1
	UNF02	FPC –Utilities Unit	1	1	1	1	1				1						1	1		1	2
	GRP030	Utilities Unit Combustion Cap														1					
	EQT 2	Cogeneration Unit No. 1 (166)			1	1	1	1								1		2			
		Gas Turbine No. 1 (166A)														1					
		Duct Burner No. 1 (166B)														1					
	EQT 3	Cogeneration Unit No. 2 (167)			1	1	1	1								1		2			
		Gas Turbine No. 2 (167A)														1					
		Duct Burner No. 2 (167B)														1					
	EQT 9	Cogeneration Unit No. 3 (212)			1	1	1	1								1		2			
		Gas Turbine No. 3 (212A)														1					
		Duct Burner No. 3 (212B)														1					
	EQT 4	Package Boiler A (168)			1	1	1	1								1		2			
	EQT 5	Gasoline Tank (170A)								1				2				1			
	EQT 7	Diesel fuel Storage Tank Vent (172)								1								3			
	EQT 10	Utilities Cooling Tower (220)					1											1			
	EQT 77	Package Boiler B1 (229A new)			1	1	1	1								2		2			
	EQT131	Package Boiler B2 (229B new)			1	1	1	1								2		2			
	EQT138	North Firewater Pump Engine (260)			1	1	1	1								2					

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

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ID No.:	Description	LAC 33:III.Chapter																		
		2*	5 [▲]	9	11*	13*	15	2103	2104*	2107	2113	2115	2116*	2131	22	29*	51*	53	56	59
EQT140	Gasoline Tank (170B)							1						2			1			
RLP008	Gasoline Tanks Common Vent (170)							1						2			1			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

KEY TO MATRIX

- The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
ID No.:	Description	40 CFR 60 NSPS							40 CFR 61			40 CFR 63 NESHAP				40 CFR			
		A	Kb	Db	Dc	M	GG	II	FF			A	Q	YYYY	ZZZZ	DDDD	64	68	72-78
AI-288	Formosa Plastics Corp. (FPC)								1								1		
UNF02	FPC – Utilities Unit	1							3			1					3	2	2
GRP030	Utilities Unit Combustion Cap			1															
EQT 2	Cogeneration Unit No. 1 (166)	1	1	1			1							3					
	Gas Turbine No. 1 (166A)	1					1							3					
	Duct Burner No. 1 (166B)	1	1	1															
EQT 3	Cogeneration Unit No. 2 (167)	1	1	1			1							3					
	Gas Turbine No. 2 (167A)	1					1							3					
	Duct Burner No. 2 (167B)	1	1	1															
EQT 9	Cogeneration Unit No. 3 (212)	1	1	1			1							3					
	Gas Turbine No. 3 (212A)	1					1							3					
	Duct Burner No. 3 (212B)	1	1	1															
EQT 4	Package Boiler A (168)			3	1														
EQT 5	Gasoline Tank (170B)		3																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Baton Rouge Plant—Utilities Unit

Agency Interest No.: 288 Activity: PER20070010

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61			40 CFR 63 NESHAP					40 CFR				40 CFR 82				CAA
		A	Kb	Db	Dc	M	GG	II	FF				Q	YY	ZZ	DDDD	64	68	72-78	B	E	F	H		
EQT 7	Diesel fuel Storage Tank Vent (172)		3																						
EQT 10	Utilities Cooling Tower (220)											3													
EQT 77	Package Boiler B1 (229A new)	1		1																					
EQT131	Package Boiler B2 (229B new)	1		1																					
EQT138	North Firewater Pump Engine (260)							1						1											
EQT140	Gasoline Tank (170B)		3																						
RLP008	Gasoline Tanks Common Vent (170)		3																						

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- The regulations have applicable requirements that apply to this particular emission source.
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- The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
UNF02 FPC –Utilities Unit	<p>Acid Rain Program [40 CFR 72-78]</p> <p>Acid Rain Program Permitting Requirements [LAC 33:III.505.A.2.e.ii]</p>	<p>DOES NOT APPLY. No single electrical generating unit has sold more than one-third of its power to the electrical grid over a 3-year period nor has it supplied more than 219,000 MW-hrs actual electrical output on an annual basis for sale to an electrical grid.</p>
	<p>Compliance Assurance Monitoring (CAM) [40 CFR 64]</p>	<p>DOES NOT APPLY CAM is not applicable to emission units EQT002/Cogeneration 1 (166), EQT003/Cogeneration 2 (167), and EQT009/Cogeneration Unit 3 (212), because NOx, the pollutant requiring control, does not have any monitoring requirements according to a determination made by EPA dated April 24, 2001 regarding industrial gas turbines having a heat input at peak load greater than 100 MMBTU/hr and a manufacturer's rated base load at ISO conditions greater than 30 MW, per 40 CFR 60.332 (40 CFR 60 Subpart GG). Any monitoring for NOx required by 40 CFR 60 Subpart GG would have been considered CAM for these emission units. The other emission units in the Utilities Unit are not pollutant specific emission units (PSEU), defined as any major source unit that has the potential to emit greater than 100 tons of a regulated air pollutant after controls (post-control).</p>

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
UNF02 FPC- Utilities Unit (continued)	National Emission Standard for Benzene Waste Operations [40 CFR 61 Subpart FF]	DOES NOT APPLY. The Utilities Unit does not generate a benzene wastewater stream.
	Chemical Accident Prevention [40 CFR Subpart 68] [LAC 33:III. Chapter 59]	EXEMPT. Any regulated chemicals are utilized below their respective thresholds.
	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III. 1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. 5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.
EQT 2 Cogeneration Unit No. 1 (166)	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYYY]	DOES NOT APPLY. Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 3 Cogeneration Unit No. 2 (167)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.
	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYYY]	DOES NOT APPLY. Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 9 Cogeneration Unit No. 3 (212)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.
	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines [40 CFR 63 Subpart YYYYY]	DOES NOT APPLY. Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of Subpart A of this part. [40 CFR 63.6090]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 4 Package Boiler A (168)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.
	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60 Subpart Db]	DOES NOT APPLY. Boiler is rated at less than 100 MMBTU/hr.
EQT005 EQT140 Gasoline Tanks (170A & 170B)	Standards of Performance for Volatile Organic Liquid Storage Vessels(Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 Subpart Kb]	DOES NOT APPLY. These are 500 gallon tanks. Regulation applies to vessels over 75 cubic meters (19,812 gallons).
	Filling of Gasoline Storage Vessels [LAC 33:III.2131]	EXEMPT as per LAC 33:III.2131.B.3. Total throughput for both tanks is 20,000 gals/yr

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 7 Diesel Fuel Tank	Control of Emission of Organic Compounds – Storage of Volatile Organic Compounds [LAC 33:III.2103]	EXEMPT. Storage vessels storing VOC with a true vapor pressure <1.5 psia are exempt from the provisions of this section except for documentation of the maximum true vapor pressure. [LAC 33:III.2103.H.3 and I.4]
	Standards of Performance for Volatile Organic Liquid Storage Vessels(Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 Subpart Kb]	DOES NOT APPLY. Storage vessel has a capacity of 10,000 which is less than the 19,812 gallons (75 cubic meters) requirement.
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109]	DOES NOT APPLY. This source does not emit TAPs.
EQT 10 Utilities Cooling Tower (220)	NESHAP for Source Categories Subpart Q – Chromium Emissions from Industrial Process Cooling Towers (IPCT) [40 CFR 63.400(a)]	DOES NOT APPLY. No water treatment programs containing chromium or chromium compounds are in use at FPC-LA.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
Baton Rouge Plant—Utilities Unit
Agency Interest No.: 288 Activity: PER20070010
Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 77 Package Boiler B1 (229A)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Control of Emissions of Nitrogen Oxides (NOx) in the Baton Rouge Nonattainment Area and Region of Influence [LAC 33:III.2201]	EXEMPT. This point source is required to meet more stringent state/federal NOx emission limitation. Monitoring, recordkeeping, and reporting requirements specified in LAC 33:III.Chapter 22 apply.[LAC 33:III.2201.C.15]
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.
	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
EQT 131 Package Boiler B2 (229B)	Control of Emissions of Nitrogen Oxides (NOx) in the Baton Rouge Nonattainment Area and Region of Influence [LAC 33:III.2201]	EXEMPT. This point source is required to meet more stringent state/federal NOx emission limitation. Monitoring, recordkeeping, and reporting requirements specified in LAC 33:III.Chapter 22 apply.[LAC 33:III.2201.C.15]
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Until the administrative authority makes a final determination, toxic air pollutant emissions from the combustion of Group 1 and Group 2 virgin fossil fuels are exempt from the requirements of Chapter 51.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Formosa Plastics Corporation, Louisiana
 Baton Rouge Plant—Utilities Unit
 Agency Interest No.: 288 Activity: PER20070010
 Baton Rouge, East Baton Rouge Parish, Louisiana

Chapter 15. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT 138 North Firewater Pump Engine (260)	Chapter 15. Emission Standards for Sulfur Dioxide [LAC 33:III.1501-1513]	EXEMPT. Units emit less than 250 tons of SO ₂ per year.
	Control of Emissions of Nitrogen Oxides (NO _x) in the Baton Rouge Nonattainment Area and Region of Influence [LAC 33:III.2201.C]	EXEMPT. This source is a diesel -fired stationary internal combustion engine.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated May 22, 2007, along with supplemental information dated August 29, October 12 and 31, and November 1, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

AI288

- 1 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF
Subpart FF applies facility wide, but the Utilities Unit does not generate a benzene wastewater stream. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF
Subpart FF applies facility wide, but the Utilities Unit does not generate a benzene wastewater stream.
Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF
Subpart FF applies facility wide, but the Utilities Unit does not generate a benzene wastewater stream. [40 CFR 61.357(a)]
Submit report: Due whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 1 Mg/yr (1.1 ton/yr) or more. Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3). Subpart FF
Subpart FF applies facility wide, but the Utilities Unit does not generate a benzene wastewater stream. [40 CFR 61.357(b)]
- 2 [40 CFR 61.356]
- 3 [40 CFR 61.357(a)]
- 4 [40 CFR 61.357(b)]
- 5 [40 CFR 68.]
Permittee shall comply with all applicable provisions of 40 CFR 68.
Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- 6 [LAC 33:III.5907]
- 7 [40 CFR 60.333(b)]
Fuel sulfur content $\leq 0.8\%$ by weight (8000 ppmw) for any fuel burned (complies by using sweet natural gas as fuel). Subpart GG. [40 CFR 60.333(b)]
Which Months: All Year Statistical Basis: None specified
Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334(h)(1)]
Which Months: All Year Statistical Basis: None specified
Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #1. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]
Record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor for natural gas, for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 8 [40 CFR 60.334(h)(1)]
- 9 [40 CFR 60.44b(a)(4)]
- 10 [40 CFR 60.49b(d)]
- 11 [40 CFR 60.49b(o)]
Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

EQ10002 166 - Cogeneration Unit No. 1

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0002 166 - Cogeneration Unit No. 1

- 12 [40 CFR 60, Subpart Db] Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner (HRSG #1) associated with this emission point.
- 13 [40 CFR 60, Subpart Gg] Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Gg - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point.
- 14 [LAC 33:III.1101.B] Opacity \leq 20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 15 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average Opacity \leq 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 16 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 17 [LAC 33:III.1513] Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 18 [LAC 33:III.2201.D.1] Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1.
- 19 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO₂, PM₁₀, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 20 [LAC 33:III.2201.G.5] Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.
- 21 [LAC 33:III.2201.G.5] Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. Which months: Jan-Dec.
- 22 [LAC 33:III.2201.G.5] Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.
- 23 [LAC 33:III.2201.H.3.b.i] Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season (May 1 through Sep 30), Permittee shall monitor and record the natural gas fuel consumption to the gas turbine once each hour. Permittee shall continuously monitor natural gas consumption to HRSG #1 and will record documentation of the total daily amount of fuel consumed in HRSG #1.
- 24 [LAC 33:III.2201.H.3.b.vi] Which Months: May-Sep Statistical Basis: Hourly average Either the steam to fuel ratio or the ratio of actual steam flow rate to required steam flow rate will be recorded in accordance with the approved Alternative Monitoring Plan. These records shall be maintained on site and shall be available to the Air Quality Compliance Division.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQ10002 166 - Cogeneration Unit No. 1

25 [LAC 33:III.2201.H.3.b.vi]

Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) continuously. Permittee will monitor and record the steam rate added with the turbine fuel every two hours, except during the ozone season. [LAC 33:III.2201.H.3.b]

Which Months: Jan-Apr; Oct-Dec Statistical Basis: Two-hour average

26 [LAC 33:III.2201.H.3.b.vi]

Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) hourly. During the ozone season (May 1 through Sep 30), Permittee will monitor and record the steam rate added with the turbine fuel once each hour.

Which Months: May-Sep Statistical Basis: Hourly average

27 [LAC 33:III.501.C.6]

Either the steam/fuel ratio or actual steam flow rate to required flow rate monitored continuously. The permittee shall install and diligently maintain a continuous monitor indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected in the turbine. These records shall be maintained on site and available to the Air Quality Compliance Division.

28 [LAC 33:III.501.C.6]

Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information every two hours, except during ozone season. Permittee shall continuously monitor the natural gas consumption by HRSG #1 and will record documentation of the total daily amount of fuel consumed in HRSG #1.

Which Months: Jan-Apr; Oct-Dec Statistical Basis: Hourly average

29 [LAC 33:III.501.C.6]

Natural Gas: Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain continuous monitors indicating fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division.

Which Months: All Year Statistical Basis: Hourly average

30 [LAC 33:III.501.C.6]

Permittee shall operate the duct burner (HRSG #1) associated with this emission point on sweet natural gas only.

EQ10003 167 - Cogeneration Unit No. 2

31 [40 CFR 60.333(b)]

Fuel sulfur content $\leq 0.8\%$ by weight (8000 ppmw) for any fuel burned (complies by using sweet natural gas as fuel). Subpart GG. [40 CFR 60.333(b)]

Which Months: All Year Statistical Basis: None specified

32 [40 CFR 60.334(h)(1)]

Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334(h)(1)]

Which Months: All Year Statistical Basis: None specified

33 [40 CFR 60.44b(a)(4)]

Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #2. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]

34 [40 CFR 60.49b(d)]

Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day in HRSG #2 and calculate the annual capacity factor for natural gas for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]

35 [40 CFR 60.49b(o)]

Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

36 [40 CFR 60 Subpart Db]

Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner associated with this emission point.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0003 167 - Cogeneration Unit No. 2

- 37 [40 CFR 60, Subpart GG]
- 38 [LAC 33:III.1101.B]
- 39 [LAC 33:III.1311.C]
- 40 [LAC 33:III.1313.C]
- 41 [LAC 33:III.1513]
- 42 [LAC 33:III.2201.D.1]
- 43 [LAC 33:III.2201.G.2]
- 44 [LAC 33:III.2201.G.5]
- 45 [LAC 33:III.2201.G.5]
- 46 [LAC 33:III.2201.G.5]
- 47 [LAC 33:III.2201.H.3.b.i]
- 48 [LAC 33:III.2201.H.3.b.i]
- 49 [LAC 33:III.2201.H.3.b.vi]

Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point.

Opacity <= 20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Equipment/operational data: Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1.

Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.2201.G.2. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.

Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.

Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. Which months: Jan-Dec.

Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.

Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season (May 1 through Sep 30), Permittee shall monitor the natural gas fuel consumption to the gas turbine once each hour. Permittee shall continuously monitor natural gas consumption to HRS#2 and will record documentation of the total daily amount of fuel consumed in HRS#2.

Which Months: May-Sep Statistical Basis: Hourly average

Natural Gas: Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information every two hours, except during ozone season. Permittee shall continuously monitor the natural gas consumption by HRS#2 and will record documentation of the total daily amount of fuel consumed in HRS#2. [LAC 33:III.2201.H.3.b]

Which Months: Jan-Apr-Oct-Dec Statistical Basis: Hourly average

Either the steam/fuel ratio or the ratio of actual steam flow to required steam flow will be recorded in accordance with the approved Alternative Monitoring Plan. These records shall be maintained on site and shall be available to the Air Quality Compliance Division.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0003 167 - Cogeneration Unit No. 2

- 50 [LAC 33:III.2201.H.3.b.vi] Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) hourly. During the ozone season (May 1 through Sep 30), Permittee will monitor and record the steam consumption to the turbine once each hour.
- 51 [LAC 33:III.2201.H.3.b] Which Months: May-Sep Statistical Basis: Hourly average
- 52 [LAC 33:III.501.C.6] Steam: Flow rate monitored by continuous parameter monitoring system (CPMS) continuously. Permittee will monitor and record the steam rate added to the turbine fuel every two hours, except during the ozone season.
- 53 [LAC 33:III.501.C.6] Which Months: Jan-Apr;Oct-Dec Statistical Basis: Two-hour average
- 54 [LAC 33:III.501.C.6] Either the steam/fuel ratio or actual steam flow rate to required steam flow rate monitored continuously. The permittee shall install and diligently maintain a continuous monitor indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected in the turbine. These records shall be maintained on site and available to the Air Quality Compliance Division.
- 55 [LAC 33:III.501.C.6] Natural Gas: Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain continuous monitors indicating each type of fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division.
- 56 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Hourly average
- 57 [LAC 33:III.501.C.6] Permittee shall operate the duct burner (HRS#2) associated with this emission point on sweet natural gas only.

EQT0004 168 - Package Boiler A

- 55 [40 CFR 60.48c(a)] Comply with the appropriate recordkeeping and reporting requirements specified for this emission source. [40 CFR 60.48c(a)]
- 56 [40 CFR 60.48c(g)(2)] Fuel rate recordkeeping by electronic or hard copy monthly. Keep records of the amount of each fuel combusted during each calendar month.
- 57 [40 CFR 60.48c(i)] Subpart Dc. [40 CFR 60.48c(g)(2)]
- 58 [LAC 33:III.1101.B] Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
- 59 [LAC 33:III.1311.C] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, or equipment changes which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 60 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: Six-minute average
- 61 [LAC 33:III.1513] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 62 [LAC 33:III.2201.D.1] Which Months: All Year Statistical Basis: Six-minute average
- 63 [LAC 33:III.2201.G.2] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 64 [LAC 33:III.2201.D.1] Which Months: All Year Statistical Basis: None specified
- 65 [LAC 33:III.2201.D.1] Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 66 [LAC 33:III.2201.D.1] Permittee shall comply with all applicable emission rate requirements of LAC 33:III.2201.D.1.
- 67 [LAC 33:III.2201.D.1] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0004 168 - Package Boiler A

- 64 [LAC 33:III.2201.H.1.a.iii] Permittee shall demonstrate continuous compliance in accordance with LAC 33:III.2201.H.1.a.iii. In order to demonstrate compliance with the NOx limits of Subsection D and E of this Section, implement procedures to operate the boiler within the fuel and oxygen limits established during the initial compliance run in accordance with Subsection G of this section.
- 65 [LAC 33:III.2201.H.1.a] Fuel rate monitored by continuous parameter monitoring system (CPMS) continuously.
- 66 [LAC 33:III.2201.H.1.a] Which Months: May-Sep Statistical Basis: 24-hour average
Oxygen monitored in accordance with approved Alternative Monitoring Plan. Permittee will install, calibrate, maintain, and operate an oxygen monitor to measure oxygen concentration in the flue gas. Which months: May-Sep Statistical Basis: Daily Average.
Which Months: May-Sep Statistical Basis: Daily average

EQT0005 170A-Gasoline Storage Tank

- 67 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
Tank is equipped with submerged fill pipe.
- 68 [LAC 33:III.2103.H.3] When required, determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.
- 69 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 70 [LAC 33:III.5109.A] Source emits Class I (benzene) and/or Class II TAPs. Benzene is emitted above the MER facility wide. As per LAC 33:III.2103, tank is equipped with submerged fill pipe. Determined as MACT.

EQT0007 172 - Diesel Fuel Storage Tank Vent

- 71 [LAC 33:III.2103.I] The owner/operator of any storage facility shall maintain records to verify compliance with or exemption from LAC 33:III.2103.

EQT0009 212 - Cogeneration Unit No. 3

- 72 [40 CFR 60.333(b)] Fuel sulfur content $\leq 0.8\%$ by weight (8000 ppmw) for any fuel burned (complies by using sweet natural gas as fuel). Subpart GG. [40 CFR 60.333(b)]
- 73 [40 CFR 60.334((h)(1))] Which Months: All Year Statistical Basis: None specified
Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334((h)(3)). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). 40 CFR 60 Subpart GG. [40 CFR 60.334((h)(1))]
- 74 [40 CFR 60.44b(a)(4)] Which Months: All Year Statistical Basis: None specified
Maintain NOx emissions at less than 0.2 lb/MMBTU heat input for HRSG #3. Unit is exempt from NOx limitations when combusting gas with less than 0.3% nitrogen content. [40 CFR 60.44b(a)(4)]
- 75 [40 CFR 60.46b(c)] Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0009 212 - Cogeneration Unit No. 3

- 76 [40 CFR 60.49b(a)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 77 [40 CFR 60.49b(d)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 78 [40 CFR 60.Subpart Db] Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart Db - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, for the duct burner associated with this emission point. Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, in the operation of the turbine associated with this emission point.
- 80 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 81 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified
- 82 [LAC 33:III.1313.C] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 83 [LAC 33:III.1513] Which Months: All Year Statistical Basis: Six-minute average
- 84 [LAC 33:III.2201.G.2] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 85 [LAC 33:III.2201.G.5] Which Months: All Year Statistical Basis: None specified
- 86 [LAC 33:III.2201.G.5] Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 87 [LAC 33:III.2201.G.5] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 88 [LAC 33:III.2201.H.3.b.i] Carbon monoxide: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.3.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.
- 89 [LAC 33:III.2201.H.3.b.i] Nitrogen oxides: Every three years, Permittee will conduct a stack test to monitor NOx and CO and other appropriate emissions in accordance with methods specified. A modification must be submitted to the LDEQ should NOx emissions exceed permitted limits within three months of testing. Which months: Jan-Dec.
- 90 [LAC 33:III.2201.H.3.b.i] Nitrogen oxides: Monitored by stack emission testing annually. Permittee will conduct an annual test with either a stack test (three minimum one-hour tests) or an approved portable analyzer (annual testing) using approved methods per LAC 33:III.2201.H.2.b.vi. Stack tests shall be performed according to emissions testing guidelines. Which months: Jan-Dec.
- 91 [LAC 33:III.2201.H.3.b.i] Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) hourly. During ozone season (May 1 through Sep 30), Permittee will monitor and record the fuel consumption to the gas turbine once each hour.
- 92 [LAC 33:III.2201.H.3.b.i] Which Months: May-Sep Statistical Basis: Hourly average

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT009 212 - Cogeneration Unit No. 3

89 [LAC 33:III.2201.H.3.b]

Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. During ozone season, Permittee will monitor the fuel consumption in HRSG #3 hourly and will record the total amount consumed on a daily basis.

Which Months: May-Sep Statistical Basis: Hourly average

90 [LAC 33:III.501.C.6]
Fuel rate (surrogate for Nitrogen oxides) monitored by continuous parameter monitoring system (CPMS) continuously. The Permittee shall continuously monitor the natural gas fuel consumption by the gas turbine and record this information daily. Permittee shall continuously monitor the natural gas fuel consumption by HRSG #3 and will record documentation of the total daily amount of each fuel consumed in HRSG #3.

Which Months: Jan-Apr;Oct-Dec Statistical Basis: Hourly average

91 [LAC 33:III.501.C.6]
Fuel rate monitored by fuel flow/firing rate instrument continuously. Permittee will install and diligently maintain a continuous monitor indicating fuel consumption. This system of monitoring shall be accurate to within +/- 5 percent. These records shall be maintained on site and available to the Air Quality Compliance Division.

Which Months: All Year Statistical Basis: Hourly average

92 [LAC 33:III.501.C.6]

Nitrogen oxides ≤ 9 ppmv @ 15% O₂. Determined as BACT for EQT 009 at turbine optimization.

Which Months: All Year Statistical Basis: Annual average

93 [LAC 33:III.501.C.6]

Permittee shall operate the duct burner associated with this emission point on sweet natural gas only.

94 [LAC 33:III.501.C.6]

Permittee shall perform a stack test to estimate NOx emissions from Gas Turbine #3 within 12 months of issuance of permit 2915-V0 issued September 12, 2006. The results from this test must be reported to LDEQ. A modification must be submitted to the LDEQ should NOx emissions exceed the permitted limits within three months of testing.

The requirement has been completed. The stack test was performed July 17-19, 2007.

95 [LAC 33:III.509]

At conditions other than steady state (e.g., during start-ups, shutdowns, and/or when operating at loads ≤ 25 MW), the permitted emissions limit for CO is 85.71 max lb/hr. Permittee shall monitor and record the duration and emissions rate during these episodes. PSD-LA-560 (M4).

96 [LAC 33:III.509]

At conditions other than steady state (e.g., during start-ups, shutdowns, and/or when operating at loads ≤ 25 MW), the permitted emissions limit for NOx is 121.29 max lb/hr. Permittee shall monitor and record the duration and emissions rate during these episodes. PSD-LA-560 (M4).

EQT010 220 - Utility Cooling Tower

97 [LAC 33:III.501.C.6]

The updated cooling tower emissions limits will take effect after the cooling tower starts operating with the new replaced cells.

98 [LAC 33:III.5109.A]

Source emits a Class III TAP (Chlorine) only. MACT is not required.

EQT007 229A - Package Boiler B1

99 [40 CFR 60.44b]

Nitrogen oxides ≤ 0.20 lb/MMBTU heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.

Which Months: All Year Statistical Basis: Thirty-day rolling average

100 [40 CFR 60.46b(c)]

Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db.

The requirement has been completed. The testing was performed October 5, 2007. [40 CFR 60.46b(c)]

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQ10077 229A - Package Boiler B1

- 101 [40 CFR 60.48b(b)(1)] Nitrogen oxides monitored by CMS at the regulation's specified frequency. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]
- 102 [40 CFR 60.48b(b)(1)] Which Months: All Year Statistical Basis: Hourly average
- 103 [40 CFR 60.48b(b)(1)] Nitrogen oxides recordkeeping by CMS at the regulation's specified frequency. Subpart Db. [40 CFR 60.48b(b)(1)]
- 104 [40 CFR 60.48b(b)(1)] Oxygen or Carbon dioxide monitored by CMS at the regulation's specified frequency, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 105 [40 CFR 60.48b(c)] Which Months: All Year Statistical Basis: One-hour average
- 106 [40 CFR 60.48b(e)] Oxygen or Carbon dioxide recordkeeping by CMS at the regulation's specified frequency, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 107 [40 CFR 60.48b(f)] In accordance with 40 CFR 60.48b(f), operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
- 108 [40 CFR 60.49b(a)] Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 109 [40 CFR 60.49b(b)] When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 110 [40 CFR 60.49b(b)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db
- 111 [40 CFR 60.49b(c)] Requirement has been completed. The notification was submitted in a correspondence dated April 20, 2007. [40 CFR 60.49b(a)]
- 112 [40 CFR 60.49b(g)] Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db
- 113 [40 CFR 60.49b(i)] Requirement has been completed. The performance test and evaluation were conducted between July 16 and August 15, 2007. The results were submitted to LDEQ on October 5, 2007. [40 CFR 60.49b(b)]
- When required, submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- Submit plan (if required): Due within 360 days of initial startup to DEQ for approval. The plan must identify the operating conditions to be monitored under 40 CFR 60.48b(g)(2), the records to be maintained under 40 CFR 60.49b(g), and all other information as specified in 40 CFR 60.49b(c)(1) through (c)(3). If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. Subpart Db. [40 CFR 60.49b(c)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQ10077 229A - Package Boiler B1

- 114 [LAC 33:III.1101.B]
Opacity <= 20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average
Total suspended particulate <= 0.6 lb/MMBTU of heat input. (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously.
In accordance with LAC 33:III.2201.C.15, this point source is exempt from the requirements of LAC 33:III.2201 since the owner or operator is required to meet more stringent state/federal NOx emission limitations.
For this boiler, the vendor data is the most stringent limitation.
- 118 [LAC 33:III.501.C.6]
119 [LAC 33:III.501.C.6]

EQ10131 229B - Package Boiler B2

- 120 [40 CFR 60.44b]
Nitrogen oxides <= 0.20 lb/MMBTU (86 ng/J) heat input (expressed as NO₂). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d). Subpart Db. [40 CFR 60.48b(b)(1)]
Which Months: All Year Statistical Basis: Hourly average
Nitrogen oxides recordkeeping by CMS continuously. Subpart Db. [40 CFR 60.48b(b)(1)]
Oxygen or Carbon dioxide monitored by CMS at the regulation's specified frequency, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
Which Months: All Year Statistical Basis: One-hour average
Oxygen or Carbon dioxide recordkeeping by CMS at the regulation's specified frequency, except as provided in 40 CFR 60.48b(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
In accordance with 40 CFR 60.48b(f), operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]
Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NOx continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 123 [40 CFR 60.48b(b)(1)]
124 [40 CFR 60.48b(b)(1)]
125 [40 CFR 60.48b(b)(1)]
126 [40 CFR 60.48b(c)]
127 [40 CFR 60.48b(e)]

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0131 229B - Package Boiler B2

- 128 [40 CFR 60.48b(f)] When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 129 [40 CFR 60.49b(a)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db
- 130 [40 CFR 60.49b(b)] Requirement has been completed. The notification was submitted in a correspondence dated April 20, 2007. [40 CFR 60.49b(a)]
- 131 [40 CFR 60.49b(b)] Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db
- 132 [40 CFR 60.49b(c)] Requirement has been completed. The performance test and evaluation were conducted between July 16 and August 15, 2007. The results were submitted to LDEQ on October 5, 2007. [40 CFR 60.49b(b)]
- 133 [40 CFR 60.49b(b)] When required, submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 134 [40 CFR 60.49b(i)] Submit plan (if required): Due within 360 days of initial startup to DEQ for approval. The plan must identify the operating conditions to be monitored under 40 CFR 60.48b(g)(2), the records to be maintained under 40 CFR 60.49b(g), and all other information as specified in 40 CFR 60.49b(c)(1) through (c)(3). If the plan is approved, maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. Subpart Db. [40 CFR 60.49b(c)]
- 135 [LAC 33:III.101.B] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 136 [LAC 33:III.1311.C] Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 137 [LAC 33:III.1313.C] Opacity <= 20 percent, except during the cleaning of a fire box, building of a new fire, or equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 138 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified
- 139 [LAC 33:III.501.C.6] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 140 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average
- 141 [LAC 33:III.501.C.6] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 142 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 143 [LAC 33:III.501.C.6] Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.1513. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 144 [LAC 33:III.501.C.6] Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously.
- 145 [LAC 33:III.501.C.6] In accordance with LAC 33:III.2201.C.15, this point source is exempt from the requirements of LAC 33:III.2201 since the owner or operator is required to meet more stringent state/federal NOx emission limitations.
- 146 [LAC 33:III.501.C.6] For this boiler, the vendor data is the most stringent limitation.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0138 260 - North Firewater Pump Engine

- 141 [40 CFR 60.4205(c)] Carbon monoxide ≤ 2.6 g/BHP-hr (3.5 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
- 142 [40 CFR 60.4205(c)] Which Months: All Year Statistical Basis: None specified
- 143 [40 CFR 60.4205(c)] Non-methane hydrocarbons plus Nitrogen oxides ≤ 7.8 g/BHP-hr (10.5 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
- 144 [40 CFR 60.4206] Which Months: All Year Statistical Basis: None specified
- 145 [40 CFR 60.4207(a)] Particulate Matter (PM) ≤ 0.4 g/BHP-hr (0.54 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]
- 146 [40 CFR 60.4207(b)] Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.
- 147 [40 CFR 60.4209(a)] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]
- 148 [40 CFR 60.4211(a)] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]
- 149 [40 CFR 60.4211(b)] Operating time: Operating time monitored by non-resettable hour meter continuously during operation.
- 150 [40 CFR 60.4211(c)] Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]
- 151 [40 CFR 60.4211(c)] Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]
- 152 [40 CFR 60.4211(b)] As per Table 3, if the North Firewater Pump Engine (525 hp) is manufactured during 2008, then demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart IIII
- 153 [40 CFR 60.4211(b)] . [40 CFR 60.4211(b)]
- 154 [40 CFR 60.4211(c)] As per Table 3, if the North Firewater Pump Engine (525 hp) is manufactured after 2008, then ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFP A nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]
- 155 [40 CFR 60.4211(c)] Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine.
- 156 [40 CFR 60.4211(c)] Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under 40 CFR 60.4205 but not 40 CFR 60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited. Subpart IIII
- 157 [40 CFR 60.4211(c)] . [40 CFR 60.4211(c)]
- 158 [40 CFR 60.4211(c)] If demonstrating compliance with the emissions standards as per 40 CFR 60.4211(b)(5), then conduct the performance tests according to 40 CFR 60.4212, as applicable. Subpart IIII.
- 159 [40 CFR 60.4211(c)] A stationary RICE that is a new or reconstructed emergency stationary RICE does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of 40 CFR 63.6645(d). Subpart ZZZZ.
- 160 [40 CFR 63.6590(b)(1)] Requirement has been completed. FPC submitted the initial notification dated September 19, 2007. [40 CFR 63.6590(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT0138 260 - North Firewater Pump Engine

154 [40 CFR 63.6645(d)]

If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with 40 CFR 63.6590(b), your notification should include the information in 40 CFR 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE).

Subpart ZZZZ

Requirement has been completed. FPC submitted the initial notification with document dated September 19, 2007. [40 CFR 63.6645(d)]

155 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

156 [LAC 33:III.1311.C]

Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

157 [LAC 33:III.1513]

Equipment/operational data: Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT0140 170B-Gasoline Storage Tank

158 [LAC 33:III.2103.A]

Equip with a submerged fill pipe.

Tank is equipped with submerged fill pipe.

159 [LAC 33:III.2103.H.3]

When required, determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

160 [LAC 33:III.2103.I]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

161 [LAC 33:III.5109.A]

Source emits Class I (benzene) and/or Class II TAPs. Benzene is emitted above the MER facility wide. As per LAC 33:III.2103, tank is equipped with submerged fill pipe. Determined as MACT.

GRP0030 Utilities Unit Combustion Cap

Group Members: EQT0002 EQT0003 EQT0004 EQT0009 EQT0077 EQT0131

162 [40 CFR 60. SubpartDb]

Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart Db for the duct burners associated with emission points EQT 2, EQT 3, and EQT 9. CEMs are not required for NOx monitoring based on an EPA determination on waste heat boilers. [40 CFR 60. SubpartDb]

163 [LAC 33:III.2201.B]

Operating time: Operating time recordkeeping by electronic or hard copy daily. For the purpose of calculating a daily average, the operating day will be as defined in the approved Alternative Monitoring Plan, when operating each source.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

GRP0030 Utilities Unit Combustion Cap

164 [LAC 33:III.2201.D.1 and D.7

Equipment/operational data (surrogate for Nitrogen oxides) monitored by technically sound method at the approved frequency in accordance with the approved Alternative Monitoring Plan. Permittee will utilize previously defined emission factors and current fuel rates as specified in the most recently approved Alternative Monitoring Plan, to demonstrate compliance with approved nitrogen oxides emission rates during the ozone season (May 1-Sep 30) in the Baton Rouge Nonattainment Area. Data and appropriate calculations will be made available to DEQ personnel upon request.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

During periods in which Package Boiler B1 and/or B2 are not operating, permittee shall demonstrate compliance with the Utility Unit Emission Cap annual emissions limits shown below by recording the total daily average fuel to each source in the Utility Cap when operating. These records shall be recorded and kept on site and available for inspection by the Department of Environmental Quality. Emissions from the sources under this emission cap over the maximum given in this permit for any twelve month rolling period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Pollutant Emissions (tpy)

PM10 30.26

SO2 22.69

NOx 642.74

CO 350.65

Total VOC 35.53.

166 [LAC 33:III.501.C.6]

During periods in which either Package Boiler B1 or B2 is operating, permittee shall demonstrate compliance with the following Utility Unit Emissions Cap annual emissions limit for applicable alternate operating scenarios identified in the permit application and referenced below. Permittee shall demonstrate compliance with the Utility Cap annual emissions limit by recording the total daily average fuel to each source in the Utility Cap when operating. These records shall be recorded and kept on site and available for inspection by the Department of Environmental Quality. Emissions from the sources under this emission cap over the maximum given in this permit for any twelve month rolling period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

Alternate Operating Scenario	Pollutant	Emissions (tpy)
1	CO	298.50
2	CO	332.63
3	CO	298.53
4	CO	299.51
5	CO	332.77.

167 [LAC 33:III.501.C.6]

Permittee shall comply with all applicable provisions of New Source Performance Standards, 40 CFR 60 Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. Permittee is not subject to the NOx requirements of New Source Performance Standards, 40 CFR 60.332, Subpart GG in the operation of the gas turbines associated with emission points EQT 2, EQT 3, and EQT 9. NOx emission limits are not provided in 40 CFR 60.332 for non-electric utility gas turbines with peak firing rates greater than 100 MMBtu/hr LHV or greater than 30 MW. If permittee meets the definition of electric utility stationary gas turbine in accordance with 40 CFR 60.331, the permittee will be subject to the NOx emission limit in 40 CFR 60.332(b) and corresponding requirements for applicable source(s).

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

GRP0030 Utilities Unit Combustion Cap

168 [LAC 33:III.501.C.6]

Permittee shall install and maintain continuous monitors indicating either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate being injected into Gas Turbines #1 and #2 (EQT002 and EQT003, respectively). This system of monitoring shall be accurate to within +/- 5 percent. Permittee shall measure and record either the ratio of steam-to-fuel or the actual to required steam flow rate, each hour during ozone season, but every 2 hours during non-ozone season. These records shall be maintained on site and available to the Air Quality Compliance Division.

169 [LAC 33:III.501.C.6]

Permittee shall operate the duct burners, integral parts of EQT 2, EQT 3, and EQT 9, with sweet natural gas only.

170 [LAC 33:III.501.C.6]

Ratio: Permittee shall maintain either the ratio of steam to fuel or the ratio of actual steam flow rate to required steam flow rate on Gas Turbine #1 and Gas Turbine #2 on a 30-day rolling average basis. Either the fuel to steam ratio or required steam flow rate to actual steam flow rate shall be measured and recorded each hour during ozone season, but every 2 hours during non-ozone season.

171 [LAC 33:III.501.C.6]

The permittee shall record the scenario under which the sources in the Utility Unit Emissions Cap are operating contemporaneous with making a change from one operating scenario to another.

GRP0031 Alternate Operation of Package Boilers B1 and B2 (except during periods of startup and shutdown)

Group Members: EQT0077 EQT0131

172 [LAC 33:III.501.C.6]

Except during periods of startup and shutdown, permittee shall not operate Package Boiler B1 and Package Boiler B2 simultaneously.

UNF0002 FPC-Utilities Unit

173 [40 CFR 60.]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

174 [40 CFR 61.145(b)(1)]

Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.

175 [40 CFR 61.148]

Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

176 [40 CFR 61.]

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

177 [40 CFR 70.6(a)(3)(iii)(B)]

Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]

178 [LAC 33:III.1103]

STATE ONLY - Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

179 [LAC 33:III.1303]

STATE ONLY - Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

UNF0002 FPC-Utilities Unit

- 180 [LAC 33:III.2113.A]
- 181 [LAC 33:III.219]
- 182 [LAC 33:III.2901.D]
- 183 [LAC 33:III.2901.F]
- 184 [LAC 33:III.501.C.1]
- 185 [LAC 33:III.507.A.1.a]
- 186 [LAC 33:III.507.C.1]
- 187 [LAC 33:III.507.C.3]
- 188 [LAC 33:III.509.1.1]
- 189 [LAC 33:III.509]
- 190 [LAC 33:III.5105.A.1]
- 191 [LAC 33:III.5105.A.2]
- 192 [LAC 33:III.5105.A.3]
- 193 [LAC 33:III.5105.A.4]
- 194 [LAC 33:III.5107.A.2]

Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III Chapter 5.

Submit a timely and complete permit application to the Office of Environmental Services, Air Permits Division, as required in accordance with the procedures in LAC 33:III Chapter 5.

Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507.

Any Part 70 source for which construction or operation has begun prior to the effective date of LAC 33:III.507 shall submit an application for an initial Part 70 permit. Permit applications shall be prepared in accordance with LAC 33:III.517 and with forms and guidance provided by DEQ, and shall be submitted no later than one year after the effective date of the Louisiana Part 70 program.

Any source that becomes subject to the requirements of LAC 33:III.507 after the effective date of the Louisiana Part 70 program due to regulations promulgated by the Environmental Protection Agency or by the Department of Environmental Quality shall submit an application to the Office of Environmental Services, Air Permits Division, in accordance with the requirements established by the applicable regulation. In no case shall the required application be submitted later than one year from the date on which the source first becomes subject to LAC 33:III.507.

No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section.

Comply with the requirements of PSD-LA-560 (M-3). This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-560 (M-3).

Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51, Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III Chapter 51, Subchapter A, after the effective date of the standard.

Do not cause a violation of any ambient air standard listed in LAC 33:III Table 51.2, unless operating in accordance with LAC 33:III.5109.B.

Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.

Do not fail to keep records, notify, report or revise reports as required under LAC 33:III Chapter 51, Subchapter A.

Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

UNF0002 FPC-Utilities Unit

195 [LAC 33:III.5107.A.]

Submit Annual Emissions Report (TED). Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

196 [LAC 33:III.5107.B.1]

Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).

197 [LAC 33:III.5107.B.2]

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

198 [LAC 33:III.5107.B.3]

Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.

199 [LAC 33:III.5107.B.4]

Submit notification in the manner provided in LAC 33:III.3923.

Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.viii.

200 [LAC 33:III.5107.B.5]

Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.

201 [LAC 33:III.5109.C]

Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

202 [LAC 33:III.5113.A.1]

As applicable, submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.

203 [LAC 33:III.5113.A.2]

As applicable, submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

UNF0002 FPC-Utilities Unit

- 204 [LAC 33:III.511]
- Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions.
- Emission reduction projects at a Part 70 source may be processed as a state-only change provided the requirements of LAC 33:III.507.F are met. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III.Chapter 5.
- 205 [LAC 33:III.517.A.1]
- Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.
- 206 [LAC 33:III.517.A.2]
- Submit permit application: Due by the date established for submittal in accordance with LAC 33:III.507.C. The permit application is for an initial permit to be issued in accordance with LAC 33:III.507. Provide a copy of each permit application pertaining to a major Part 70 source to EPA at the time of application submittal to the permitting authority.
- 207 [LAC 33:III.517.B.1]
- Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
- 208 [LAC 33:III.517.C]
- Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- 209 [LAC 33:III.517.D]
- Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.
- 210 [LAC 33:III.517.E]
- In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
- 211 [LAC 33:III.523.A]
- Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.
- 212 [LAC 33:III.523.B.2]
- Submit application for temporary exemption for testing: Due prior to test initiation. Submit the information specified in LAC 33:III.517 (with the exception of the data being measured in the test). Conduct testing for the minimum duration consistent with obtaining valid results.
- 213 [LAC 33:III.5609.A.1.b]
- Activate the preplanned abatement strategy listed in LAC 33:III.5611 Table 5 when the administrative authority declares an Air Pollution Alert.
- 214 [LAC 33:III.5609.A.2.b]
- Activate the preplanned strategy listed in LAC 33:III.5611 Table 6 when the administrative authority declares an Air Pollution Warning.
- 215 [LAC 33:III.5609.A.3.b]
- Activate the preplanned abatement strategy listed in LAC 33:III.5611 Table 7 when the administrative authority declares an Air Pollution Emergency.
- 216 [LAC 33:III.5609.A]
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 217 [LAC 33:III.5611.B]
- Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611 Tables 5, 6, and 7. During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

SPECIFIC REQUIREMENTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

UNF0002 FPC-Utilities Unit

218 [LAC 33:III.919.D]

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

INVENTORIES
AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant
Activity Number: PER20070010
Permit Number: 2915-V1
Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
FPC-Utilities Unit						
EQ10002	166 - Cogeneration Unit No. 1		652.15 MM BTU/hr	561.3 MM BTU/hr		8760 hr/yr (All Year)
EQ10003	167 - Cogeneration Unit No. 2		690.89 MM BTU/hr	580 MM BTU/hr		8760 hr/yr (All Year)
EQ10004	168 - Package Boiler A		92.7 MM BTU/hr	92.7 MM BTU/hr		8760 hr/yr (All Year)
EQ10005	170A - Gasoline Storage Tank	500 gallons				8760 hr/yr (All Year)
EQ10007	172 - Diesel Fuel Storage Tank Vent	10000 gallons		800000 gallons/yr		8760 hr/yr (All Year)
EQ10009	212 - Cogeneration Unit No. 3		672.89 MM BTU/hr	580.2 MM BTU/hr		8760 hr/yr (All Year)
EQ10010	220 - Utility Cooling Tower		13000 gallons/min	13000 gallons/min		8760 hr/yr (All Year)
EQ10007	229A - Package Boiler B1		350 MM BTU/hr	350 MM BTU/hr		8760 hr/yr (All Year)
EQ10131	229B - Package Boiler B2		350 MM BTU/hr	350 MM BTU/hr		8760 hr/yr (All Year)
EQ10138	260 - North Firewater Pump Engine		525 horsepower	525 horsepower		450 hr/yr (All Year)
EQ10140	170B - Gasoline Storage Tank	500 gallons				8760 hr/yr (All Year)
RLP0008	170 - Gasoline Storage Tanks (170A & B) Common Vent			20000 gallons/yr		8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
FPC-Utilities Unit							
EQ10002	166 - Cogeneration Unit No. 1	50.3	411932		136.4	60	357
EQ10003	167 - Cogeneration Unit No. 2	88.6	417304	10		105	346
EQ10004	168 - Package Boiler A	39	37165	4.5		30	360
EQ10005	170A - Gasoline Storage Tank			.17		20	
EQ10007	172 - Diesel Fuel Storage Tank Vent			.08		12	
EQ10009	212 - Cogeneration Unit No. 3	75.6	356137	10		110	260
EQ10010	220 - Utility Cooling Tower	.35	16884		804	30	108
EQ10077	229A - Package Boiler B1	50	103759	6.67		50	300
EQ10131	229B - Package Boiler B2						
EQ10140	170B - Gasoline Storage Tank			.17		20	

Relationships:

ID	Description	Relationship	ID	Description
EQ10005	170A-Gasoline Storage Tank	Vents to	RLP0008	170 - Gasoline Storage Tanks (170A & B) Common Vent
EQ10140	170B-Gasoline Storage Tank	Vents to	RLP0008	170 - Gasoline Storage Tanks (170A & B) Common Vent

Subject Item Groups:

ID	Group Type	Group Description
GRP0025	Scenario	Scenario 2 - Alternate Operating Scenario #2 - See Air Briefing Sheet page 3 for details.
GRP0026	Scenario	Scenario 3 - Alternate Operating Scenario #3 - See Air Briefing Sheet page 3 for details.

INVENTORIES

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant
 Activity Number: PER20070010
 Permit Number: 2915-V1
 Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Group Type	Group Description
GRP0027	Scenario	Scenario 4 - Alternate Operating Scenario #4 - See Air Briefing Sheet page 3 for details.
GRP0028	Scenario	Scenario 5 - Alternate Operating Scenario #5 - See Air Briefing Sheet page 3 for details.
GRP0030	Equipment Group	Utilities Unit - Combustion Cap
GRP0031	Scenario	Alternate Operation - Package Boilers B1 and B2 (except during periods of startup and shutdown)
GRP0032	Scenario	Scenario 1 - Alternate Operating Scenario #1 - See Air Briefing Sheet page 3 for details.
UNF0002	Unit or Facility Wide	FPC - Utilities Unit

Group Membership:

ID	Description	Member of Groups
EQT0002	166 - Cogeneration Unit No. 1	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000032
EQT0003	167 - Cogeneration Unit No. 2	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000032
EQT0004	168 - Package Boiler A	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000032
EQT0009	212 - Cogeneration Unit No. 3	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000032
EQT0077	229A - Package Boiler B1	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000031, GRP00000000032
EQT0131	229B - Package Boiler B2	GRP00000000025, GRP00000000026, GRP00000000027, GRP00000000028, GRP00000000030, GRP00000000031, GRP00000000032

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1540	Steam Gen. Units-Natural Gas or Comb Non-Fossil Fuels (Rated Capacity)	1075.1	1,000 Lbs/Hr
1420	C) Electric Power Gen. (Natural Gas Fired) (Rated Capacity)	114	MW

SIC Codes:

4911	Electric services	UNF002
4961	Steam and air conditioning supply	UNF002

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FPC-Utilities Unit															
EQT 0002		70.0			323.89			2.87			38.71			11.07	
EQT 0003		70.0			339.68			2.53			41.01			11.58	
EQT 0004		8.12			9.67			0.73			5.80			0.53	
EQT 0007													<0.01	<0.01	<0.01
EQT 0009		70.00			75.00			2.53			41.24			11.60	
EQT 0010							1.30	2.86	5.70				0.03	0.10	0.15
EQT 0077		30.66			13.30			2.77			21.90			2.01	
EQT 0131		30.66			13.30			2.77			21.90			2.01	
EQT 0138	3.01	3.46	0.68	5.41	6.22	1.22	0.46	0.53	0.10	1.08	1.24	0.24	0.15	0.17	0.03
GRP 0025			332.63			436.07			26.22			15.82			33.40
GRP 0026			298.53			338.57			23.01			8.71			30.36
GRP 0027			299.51			369.94			26.65			15.58			31.24
Scenario 4															
GRP 0028			332.77			398.64			27.94			15.68			19.13
Scenario 5															
GRP 0030	80.06		350.65	146.74		642.74	6.91		30.26	5.18		22.69	8.08		35.37
Utilities Unit															
GRP 0031		30.66			13.30			2.77			21.90			2.01	
Alternate Operat															
GRP 0032			298.50			327.66			28.27			15.43			16.89
Scenario 1															
RLP 0008													0.04	0.05	0.18
170															

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

EQT 0009	NOx	Max lb/hr	At conditions other than steady state (e.g., during start-ups, shutdowns, and/or when operating at loads <= 25 MW), the permitted emissions limit for NOx is 121.29 max lb/hr. Permittee shall monitor and record the duration and emissions rate during these episodes. PSD-LA-560 (M4) Which Months: All Year
EQT 0009	CO	Max lb/hr	At conditions other than steady state (e.g., during start-ups, shutdowns, and/or when operating at loads <= 25 MW), the permitted emissions limit for CO is 85.71 max lb/hr. Permittee shall monitor and record the duration and emissions rate during these episodes. PSD-LA-560 (M4) Which Months: All Year
EQT 0010	PM10	Avg lb/hr	The updated cooling tower emissions limit of 1.30 lb/hr avg. will take effect after the cooling tower starts operating with the new replaced cells. Until then, the lb/hr avg. limit will be 2.08 lb/hr Which Months: All Year
EQT 0010	PM10	Max lb/hr	The updated cooling tower emissions limit of 2.86 lb/hr max. will take effect after the cooling tower starts operating with the new replaced cells. Until then, the lb/hr max. limit will be 4.16 lb/hr max Which Months: All Year

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

EQT 0010	PM10	Tons/Year
The updated cooling tower emissions limit of 5.70 TPY will take effect after the cooling tower starts operating with the new replaced cells. Until then, the TPY limit will be 9.12 TPY Which Months: All Year		

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0002 166	Acetaldehyde		0.03	
	Acrolein		0.004	
	Benzene		0.01	
	Ethyl benzene		0.02	
	Formaldehyde		0.48	
	Naphthalene		0.001	
	Polynuclear Aromatic Hydrocarbons		0.001	
	Toluene		0.09	
	Xylene (mixed isomers)		0.04	
	n-Hexane		0.25	
EQT 0003 167	Acetaldehyde		0.02	
	Acrolein		0.004	
	Benzene		0.01	
	Ethyl benzene		0.02	
	Formaldehyde		0.42	
	Naphthalene		0.001	
	Polynuclear Aromatic Hydrocarbons		0.001	
	Toluene		0.08	
	Xylene (mixed isomers)		0.04	
	n-Hexane		0.22	
EQT 0004 168	Benzene		0.0002	
	Formaldehyde		0.01	
	Toluene		0.0003	
	n-Hexane		0.17	
EQT 0009 212	Acetaldehyde		0.02	
	Acrolein		0.004	
	Benzene		0.01	
	Ethyl benzene		0.02	
	Formaldehyde		0.42	
	Naphthalene		0.001	
	Polynuclear Aromatic Hydrocarbons		0.001	
	Toluene		0.08	
	Xylene (mixed isomers)		0.04	
	n-Hexane		0.23	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0010 220	Chlorine	2.50	2.50	3.65
	Chloroform	0.03	0.10	0.15
EQT 0077 229A	Benzene		0.001	
	Formaldehyde		0.03	
	Toluene		0.001	
	n-Hexane		0.66	
EQT 0131 229B	Benzene		0.001	
	Formaldehyde		0.03	
	Toluene		0.001	
	n-Hexane		0.66	
GRP 0030 Utilities Unit	Acetaldehyde	0.06		0.26
	Acrolein	0.01		0.04
	Benzene	0.02		0.08
	Ethyl benzene	0.05		0.20
	Formaldehyde	1.07		4.68
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.003		0.01
	Toluene	0.19		0.84
	Xylene (mixed isomers)	0.09		0.41
	n-Hexane	1.06		4.64
GRP 0031 Alternate Operation	Benzene		0.001	
	Formaldehyde		0.03	
	Toluene		0.001	
	n-Hexane		0.66	
RLP 0008 170	2,2,4-Trimethylpentane	< 0.001	< 0.001	< 0.01
	Benzene	< 0.001	< 0.001	< 0.01
	Toluene	< 0.001	< 0.001	< 0.01
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.01
	n-Hexane	< 0.001	< 0.001	< 0.01
UNF 0002 FPC	2,2,4-Trimethylpentane			< 0.01
	Acetaldehyde			0.26
	Acrolein			0.04
	Benzene			0.08
	Chlorine			3.65

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 288 - Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0002 FPC	Chloroform			0.15
	Ethyl benzene			0.20
	Formaldehyde			4.68
	Naphthalene			0.01
	Polynuclear Aromatic Hydrocarbons			0.01
	Toluene			0.84
	Xylene (mixed isomers)			0.41
	n-Hexane			4.64

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

General Information

AI ID: 288 Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Also Known As:

ID	Name	User Group	Start Date
annual ADVF	Formosa Plastics Corp LA	Asbestos	01-01-1980
0840-00002	Formosa Plastics Corp Louisiana - Baton Rouge Plant	CDS Number	08-05-2002
0840-0002	Formosa Plastics Corp Louisiana - Baton Rouge Plant	Emission Inventory	03-03-2004
72-0905077	Federal Tax ID	Federal Tax ID	11-20-1999
Comp Order	Formosa Plastics Corp LA	Groundwater	03-01-2000
LAD041224932	Formosa Plastics Corp LA	Hazardous Waste Notification	08-01-1980
PC/CA	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
LA0006149	LPDES #	LPDES Permit #	05-22-2003
WP0714	LWDPS #	LWDPS Permit #	06-25-2003
GID-033-1210	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
38878	Formosa Plastics Corp LA	Solid Waste Facility No.	01-08-2002
83205	Formosa Plastics Corp	TEMPO Merge	10-31-2000
0840-0002	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70805FRMSPGULFS	TRI #	Toxic Release Inventory	07-13-2004

Physical Location:

N end of Gulf States Rd
Baton Rouge, LA 70805

Main FAX: 2253568608
Main Phone: 2253563341

Mailing Address:

PO Box 271
Baton Rouge, LA 708210271

Location of Front Gate: 30° 30' 6" 2 hundredths latitude, 91° 11' 9" 0 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Kelly B. Serio	PO Box 271 Baton Rouge, LA 708210271	2253588567 (WP)	Responsible Official for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	OWOLFF@FLBR.FF	Air Permit Contact For
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	2253588511 (WP)	Air Permit Contact For
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	OWOLFF@FLBR.FF	Emission Inventory Contact for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	2253588511 (WP)	Emission Inventory Contact for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	OWOLFF@FLBR.FF	Haz. Waste Billing Party for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	2253588511 (WP)	Haz. Waste Billing Party for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	OWOLFF@FLBR.FF	Accident Prevention Billing Party for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	2253588511 (WP)	Accident Prevention Billing Party for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	OWOLFF@FLBR.FF	TEDI Contact for
Omer Wolff	PO Box 271 Baton Rouge, LA 708210271	2253588511 (WP)	TEDI Contact for

General Information

AI ID: 288 Formosa Plastics Corp Louisiana - Baton Rouge Plant

Activity Number: PER20070010

Permit Number: 2915-V1

Air - Title V Regular Permit Minor Mod

Related Organizations:

Name	Address	Phone (Type)	Relationship
Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Air Billing Party for
Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Water Billing Party for
Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Owns
Formosa Plastics Corp	PO Box 271 Baton Rouge, LA 708210271		Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.